Project: Sprint 0 - Environment setup and high level requirements & conceptual design

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PROJECT PROPOSAL

Content, Scope and Objectives

Our goal is to make a web application on which our users can make and take the quiz. Quiz will contain multiple choice questions and True/False questions. Quiz will have limited time and after that it will give you analysis of your quiz and marks. This web application is for users to practice in efficient and easy way. We will have more than 10 categories and each will contain probably more than 100 questions. Also, user can add question to category if they want. We will be focusing more on backend part of website than frontend. We will try to make user interface as interactive as we can do.

PROJECT ENVIRONMENT

The application will be a web based application built using PHP and HTML with MySQL.

- MySQL 5.5.24
- Django Or Nodejs
- Apache server 2.2.22
- HTML 5
- CSS 4.0

Initial user roles

User Role	**Description**
Students	-Can search and take quiz according to their interests. - Also they can make their own quiz and add questions to different quiz.
Administration	-Can access and update category , subjects , questions. -Can access user information and give them access to update or make a new quiz.
Professors	-Can create quiz and add question

	-Can share this quiz to their students
Premium User	-Can make private quiz and give access to selected user who only can see.

Initial user story descriptions

Story ID	Story description
US1	As a student, I want to login to the system so that I can take the quiz and view result after completing each question.
US2	As a student, I want to create or update a quiz.
US3	As a student, I want to search the quiz by subject.
US4	As an administrator, I want to create and update different categories of quizzes subject wise.
US5	As a professor, I want to login to the system so that I can create quiz and can share with the students.
US6	As a student, I want to ask doubts to the professors.
US7	As a premier user, I can make private quiz which are accessible by authorized user only

HIGH LEVEL CONCEPTUAL DESIGN

Entities:

Users(parents) Students
Professors Premium Users
Administration **Category**
Quiz Questions Score

Relationships:

User <Manage> **Quiz Quiz**<has>**Category**
Quiz<contain>**Questions**
User<has>**Score**

Sprint 1

Initial user story descriptions

Story ID	Story description
US1	As a student, I want to login to the system so that I can take the quiz
US2	As a student, I can see my results of a quiz.
US3	As a student, You can see highest mark of particular quiz you have given.
US4	As a teacher, I can login as a teacher and get teacher portal
US5	As a teacher, I can see all my created quiz and answers
US6	As a teacher, I can create quiz and add questions to all quiz available
US7	As an administrator, I want to create and update different quizzes and questions.

Entities:

User:

Username Password
Name(Composite)
First_Name
Last_Name
Phone_no
Email
Type

Quiz:

Quiz_id
Title

Questions:

Question_id Quiz_id Question
Option_1 Option_2
Option_3 Option_4

Correct_Answer

Answer:

Question_id Username

Answer

Score:

Quiz_id

Username

Score

Timestamp

Relationship:

User <has> **Score**

Cardinality: One to Many Participation:

User has partial participation Score has total participation

Quiz <has> **Questions**

Cardinality: One to Many

Participation:

Quiz has total participation Questions has total participation

User <submitted> **Answer** Cardinality: One to Many Participation:

User has partial participation

Answer has total participation

LOGICAL DESIGN

Table

User

Columns:

Username Password

First_Name

Last_Name

Phone_no Email

Type (It will have two value student(0)and teacher(1) because they will have different functionality. We did not include admin because we are having only fix admin as us .)

Quiz

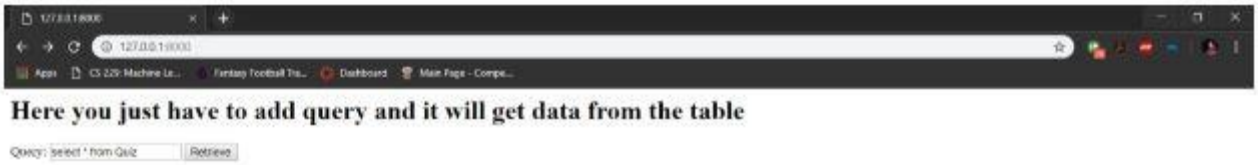
Columns:
Quiz_id Title
Questions
Columns:
Question_id
Quiz_id(foreign key, reference of quiz_id from quiz) Question
Option_1 Option_2 Option_3
Option_4
Correct_Answer

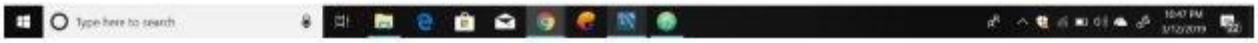
Answer
Columns:
Question_id(foreign key, reference of Question_id from Questions) Username(foreign key,
reference of Username from User)
Answer
Score
Columns:
Quiz_id(foreign key, reference of Quiz_id from Quiz) Username(foreign key,
reference of Username from User) Score

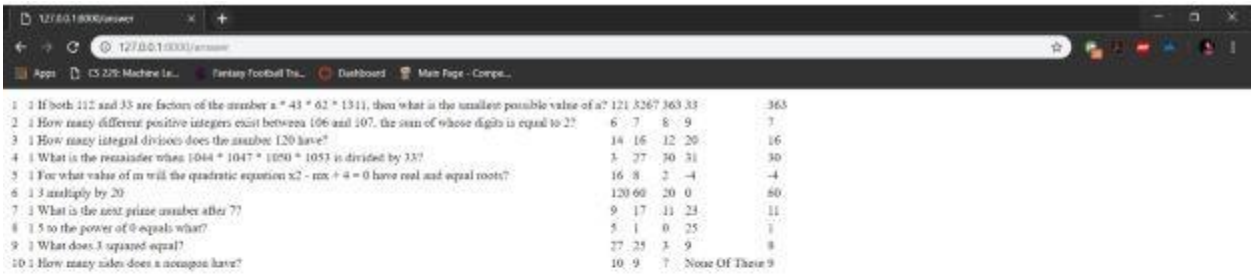
Timestamp

Query:

We first connected frontend and backend using django framework. Then in frontend we are just getting text query using post method and retrieve that query answer from database. **For right now, we just input value on two tables because other table data will create by users only.**







1	1	If both 112 and 33 are factors of the number a * 43 * 62 * 1311, then what is the smallest possible value of a?	121	3267	363	33
2	1	How many different positive integers exist between 106 and 107, the sum of whose digits is equal to 2?	6	7	8	9
3	1	How many integral divisors does the number 120 have?	14	16	12	20
4	1	What is the remainder when 1044 * 1047 * 1050 * 1053 is divided by 33?	3	27	30	31
5	1	For what value of m will the quadratic equation x2 - mx + 4 = 0 have real and equal roots?	16	8	2	-4
6	1	3 multiply by 20	120	60	20	0
7	1	What is the next prime number after 7?	9	17	11	23
8	1	5 to the power of 0 equals what?	5	1	0	25
9	1	What does 3 squared equal?	27	25	3	9
10	1	How many sides does a octagon have?	10	9	7	None Of These

363	
7	
16	
30	
-4	
60	
11	
1	
8	
9	

Science

Machine Learning
6 Computer Networks
7 Java

0:.

Type here

Sprint 2

user story descriptions

Story ID	Story description
US1	As a student, I want to login to the system so that I can take the quiz
US2	As a student, I can see my results of a quiz.
US3	As a student, You can see highest mark of particular quiz you have given.
US4	As a teacher, I can login as a teacher and get teacher portal
US5	As a teacher, I can see all my created quiz and answers
US6	As a teacher, I can create quiz and add questions to all quiz available
US7	As an administrator, I want to create and update different quizzes and questions.
US8	As a administration or teacher, we can make question which has more than four options or True/False or descriptive questions.

Entities:

User:

Username

Password Name(Composite)

First_Name

Last_Name

Phone_no

Email

Type

Quiz:

Quiz_id

Title

Questions:

Question_id

Quiz_id

Question

Correct Answer

Answer:

Quiz_id

Question_id

Username

Answer

Option:

Quiz_id

Question_id

Option_id

Option

Score:

Quiz_id

Username

Score

Timestamp

Relationship:

User <has> **Score**

Cardinality: One to Many Participation:

User has partial participation Score has total participation

Quiz <has> **Questions**

Cardinality: One to Many

Participation:

Quiz has total participation

Questions has total participation

Question <has> **Options**

Cardinality: One to Many

Participation:

Questions has total participation

Options has total participation

User <submitted> **Answer**

Cardinality: One to Many

Participation:

User has partial participation

Answer has total participation

LOGICAL DESIGN

Table

User

Columns:

Username

Password First_Name

Last_Name

Phone_no

Email

Type (It will have two value student(0)and teacher(1) because they will have different functionality. We did not include admin because we are having only fix admin as us .)

Justification of primary key : Each user will have different username so it can be used to identify the whole table

Highest Normalization: 4NF

Quiz

Columns:

Quiz_id

Title

Justification of primary key : Each quiz will have a unique quiz_id so it can be used as a primary key

Highest Normalization: 4NF

Questions

Columns:

Question_id

Quiz_id(foreign key, reference of quiz_id from quiz)

Question

Correct Answer

Justification of candidate key: Question_id and Quiz_id can be used to uniquely identify the tuples of the table.

Highest Normalization: 4NF

Options

Columns:

Quiz_id(foreign key, reference of Quiz_id from Quiz)

Question_id(foreign key, reference of Question_id from Questions)

Option_Id

Option

Justification to Primary Key: Option_id can be used to uniquely identify all the other attributes.

Highest Normalization: 4NF

Answer

Columns:

Quiz_id (foreign key, reference of Quiz_id from quiz))

Question_id(foreign key, reference of Question_id from Questions)

Username(foreign key, reference of Username from User)

Answer

Justification to candidate key : By using quiz_id,Question_id and username all the other details can be identified uniquely.

Highest Normalization: 4NF

Score

Columns:

Quiz_id(foreign key, reference of Quiz_id from Quiz) Username(foreign key, reference of Username from User)

Score

Timestamp

justification of Candidate Key: quiz_id ,username, and timestamp can be used to uniquely identify the rows of score table.

Highest Normalization: 4NF

Improvements: We increase the scope by making new table options. Now, we are able to have all multiple choice, True/False or descriptive question.

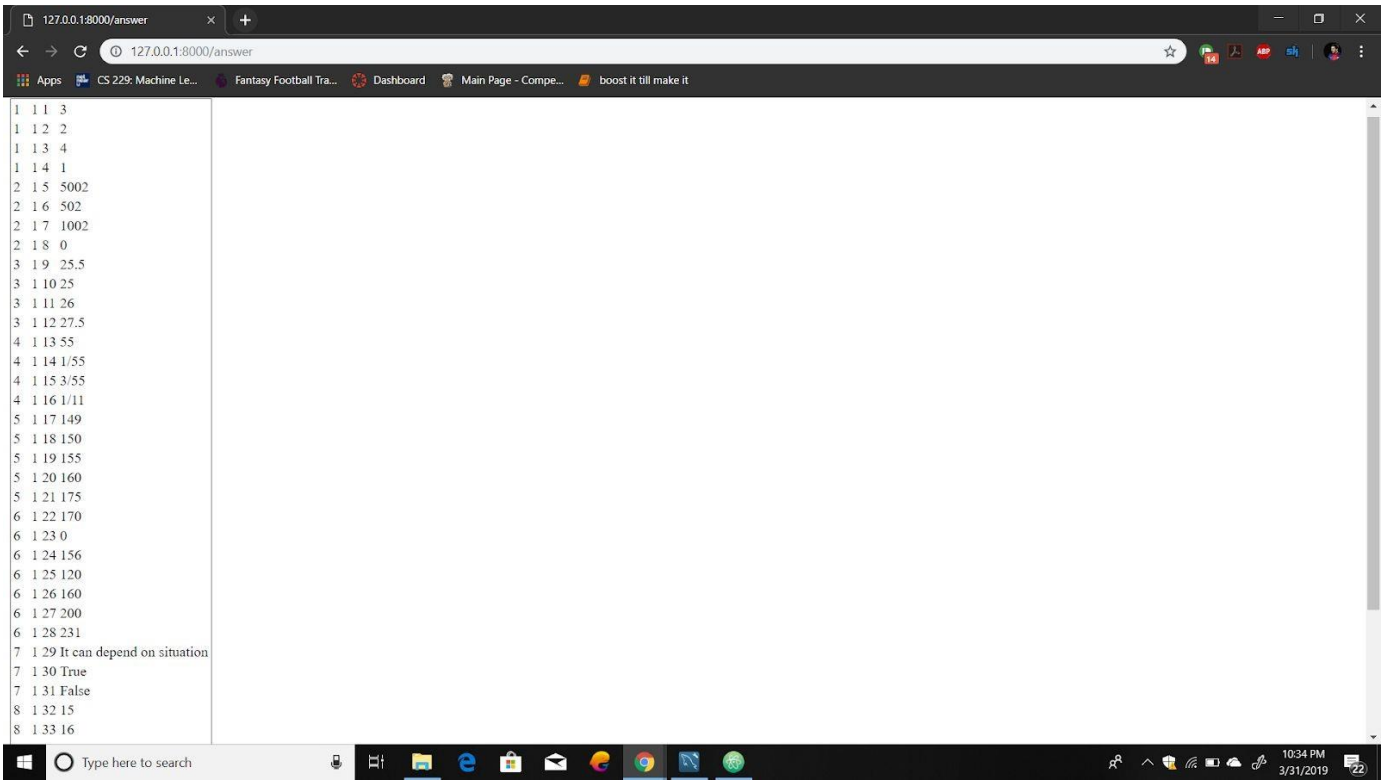
Query:

1	Math
2	GK
3	Machine Learning
4	Computer Networks
5	Python
6	Java
7	Science
8	Physics

3/31/2019 22

1	1 What is 2 multipy by 2?	4
2	1 What is 1004 divided by 2?	502
3	1 The average of first 50 natural numbers is	25.5
4	1 A fraction which bears the same ratio to 1/27 as 3/11 bear to 5/9 is equal to …….	1/55
5	1 The number of 3-digit numbers divisible by 6, is …… .	150
6	1 A clock strikes once at 1 o'clock, twice at 2 o'clock, thrice at 3 o'clock and so on. How many times will it strike in 24 hours?	156
7	1 106 × 106 – 94 × 94 = ?	
8	1 Which of the following numbers gives 240 when added to its own square?	15
9	1 Evaluation of 83 × 82 × 8-5 is …… .	1
10	1 Which one is simplest form of 1.5 : 2.5 ?	3:5

3/31/2019 22


127.0.0.1:8000/answer
127.0.0.1:8000/answer
Apps
CS 229: Machine Le...
Fantasy Football Tra...
Dashboard
Main Page - Compe...
boost it till make it
1 1 1 3
1 1 2 2
1 1 3 4
1 1 4 1
2 1 5 5002
2 1 6 502
2 1 7 1002
2 1 8 0
3 1 9 25.5
3 1 10 25
3 1 11 26
3 1 12 27.5
4 1 13 55
4 1 14 1/55
4 1 15 3/55
4 1 16 1/11
5 1 17 149
5 1 18 150
5 1 19 155
5 1 20 160
5 1 21 175
6 1 22 170
6 1 23 0
6 1 24 156
6 1 25 120
6 1 26 160
6 1 27 200
6 1 28 231
7 1 29 It can depend on situation
7 1 30 True
7 1 31 False
8 1 32 15
8 1 33 16
Type here to search
10:34 PM
3/31/2019

Sprint 3

user story descriptions

Story ID	Story description
US1	As a student, I want to login to the system so that I can take the quiz
US2	As a student, I can see my results of a quiz.
US3	As a student, You can see highest mark of particular quiz you have given.
US4	As a teacher, I can login as a teacher and get teacher portal
US5	As a teacher, I can see all my created quiz and answers
US6	As a teacher, I can create quiz and add questions to all quiz available
US7	As an administrator, I want to create and update different quizzes and questions.
US8	As a administration or teacher, we can make question which has more than four options or True/False or descriptive questions.
US9	Premium user can give feedback
US10	Premium User and users can choose categories
US11	premium users can see how many times they have taken the quiz and the duration of the quiz
US12	Premium user can see the average score
US13	Premium users can make payments
US14	Users and premium users can select the difficulty level of the quiz
US15	Premium user can take as many quizzes as they want and they can take a single quiz many number of times.
US16	Teacher can view the feedback given by premium user and also they can see the average score of their quizzes.
US17	Teacher can see the maximum score scored by user and can contact them if they want.

US18	Teacher can see last modified date of their quizzes.

Entities:

User:

Username
Password Name(Composite)
First_Name
Last_Name
Phone_no
Email
Type (Teacher, Normal
and, Premium User)

Categories:

Category_id
topics

Level:

level_id
levels

Quiz:

Quiz_id
Description
level_id
creator_id
category_id
Title
timer
last_modified_date

Questions:

Question_id
Quiz_id
Question
hint
imgurl
Correct Answer

Answers:
Quiz_id
Question_id
Username
Answer
Count_no

Options:
Quiz_id
Question_id
Option_id
Option

Score:
Quiz_id
Username
Score
Attempt_No
Timestamp

Payment:
payment_id
username
card_no
expiry_date
cvv
zip
status
deadline

Feedback:
feedback_id
Quiz_id
username
feedback
ratings

Relationship:
User <has> **Score**
Cardinality: One to Many Participation:
User has partial participation
Score has total participation

Quiz <has> **Questions**

Cardinality: One to Many

Participation:

Quiz has total participation

Questions has total participation

Question <has> **Options**

Cardinality: One to Many

Participation:

Questions has total participation

Options has total participation

User <submitted> **Answer**

Cardinality: One to Many

Participation:

User has partial participation

Answer has total participation

User<Chooses> **Categories**

Cardinality:many to many

Participation:

User has total participation

Categories has partial participation

Categories<Has>**Quiz**

Cardinality: one to many

Participation: Categories has total participation

Quiz has total participation

User(premium)<Makes>**Payments**

Cardinality:one to one

Participation:

User has partial participation

Payments has total participation

Quiz<has different> **Level**

Cardinality: Many to one

Participation: Quiz has total participation

Level has total participation

User(Premium user)<Gives>Feedback
Cardinality: one to one
Participation:
User has partial Participation
Feedback has total participation

LOGICAL DESIGN

Table

User
Columns:
Username
Password First_Name
Last_Name
Phone_no
Email
Type (It will have two value student(0)and teacher(1) because they will have different functionality. We did not include admin because we are having only fix admin as us .)
Justification of primary key : Each user will have different username so it can be used to identify the whole table

Highest Normalization: 4NF

Indexes:

1) Index : clustered
Columns: Username
Justification of Index: Username which is a primary key of the user table helps for fast retrieval of data from the table.

2) Index : Non_Clustered
Columns: First_name

Justification of Index: Most the search for user happen based on the name of the user. So to speed up the query process a non clustered index is created.

3) Index: Non_Clustered
Columns: Last_name
Justification of Index: The searches for user happen based on the last_name of the user. So to speed up the query process a non clustered index is created.

Categories
Columns:
Category_id
topics

Justification of Primary Key: Each category has a unique category_id so it can be used to identify the rows of the table.

Highest Normalization: 4NF

Index: Clustered
Columns: Category_id
Justification of Index: Category_id which is a primary key of the categories table helps for fast retrieval of data from the table. It is a default index created by database

Level
Columns:
level_id
levels

Justification of primary key : Each level has a unique level id so it can be used as a primary key

Highest Normalization: 4NF

Index: Clustered
Columns: level_id
Justification of Index: level_id which is primary key of level table helps for fast retrieval of data from the table. It is a default index created by sql server

Quiz
Columns:
Quiz_id
Description
Title
level_id(foreign key,
reference of

leve_id from
level)

category_id(foreign key,
reference of
category_id
from categories)

timer

creator_id(foreign key
reference of
username of
user table)

last_ mofied_time

Justification of primary key : Each quiz will have a unique quiz_id so it can be used as a primary key

Highest Normalization: 4NF

Index:1) Clustered

Columns: Quiz_id

Justification of Index:
Quiz_id which
is a primary key
can be used to
retrieve all the
details of the
table in a faster
way and this
index is created
by sql server in
default.

2) Non clustered

Columns: category_id

Justification of Index:
Category_id in
this table is a
primary key of
other table so an
index is created
by default by
sql server which
helps for
improving the

performance)

3) Non clustered

Columns: level_id

Justification of Index:
level_id in this table is a primary key of other table so an index is created by default by sql server which helps for improving the performance)

4) Non clustered

Columns: creator_id

Justification of Index:
creator_id in this table is a primary key of other table so an index is created by default by sql server which helps for improving the performance)

Questions

Columns:

Question_id

Quiz_id(foreign key, reference of quiz_id from quiz)

Question

Correct Answer

hint

imgurl

Justification of candidate key: Question_id and Quiz_id can be used to uniquely identify the tuples of the table.

Highest Normalization: 4NF

1) index: Clustered
Columns: Question_id
Justification of index: Question_id is a primary key and a default clustered index is created by the sql server to improve the performance.

2) index: Clustered
Columns: Quiz_id
Justification of index: Quiz_id is a foreign key and a part of the primary key so a default index is created by the sql server.

Options

Columns:
Quiz_id(foreign key, reference of Quiz_id from Quiz)
Question_id(foreign key, reference of Question_id from Questions)
Option_Id
Options

Justification to Primary Key: Option_id can be used to uniquely identify all the other attributes.

Highest Normalization: 4NF

1) Index: Clustered
Columns: Option_id
Justification of Index: Option_id is a primary key and a default index is created by sql server

2) Index: Clustered
Columns: Quiz_id
Justification of Index: Quiz_id is a foreign key and the part of a primary so a clustered index is created automatically by the sql server.

3) Index: Clustered
Columns: Question_id
Justification of Index: Question_id is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

Answers

Columns:
Quiz_id (foreign key, reference of Quiz_id from quiz))
Question_id(foreign key, reference of Question_id from Questions)
Username(foreign key, reference of Username from User)
Answer
Count_No

Justification to candidate key : By using quiz_id,Question_id and username all the other details can be identified uniquely.

Highest Normalization: 4NF

1) Index: Clustered
Columns: Question_id
Justification of Index: Question_id is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

2) Index: Clustered
Columns: Quiz_id
Justification of Index: Quiz_id is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

3) Index: Clustered
Columns: Username
Justification of Index: Username is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

Score

Columns:

Quiz_id(foreign key, reference of Quiz_id from Quiz)

Username(foreign key, reference of Username from User)

Score

Attempt_No

Timestamp

justification of Candidate Key: quiz_id ,username, and timestamp can be used to uniquely identify the rows of score table.

Highest Normalization: 4NF

1) Index: Clustered
Columns: Quiz_id
Justification of Index: Quiz_id is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

2) Index: Clustered
Columns: Username
Justification of Index: Username is foreign key and the part of a primary key so a clustered index is created automatically by the sql server.

3) Index: Clustered
Columns: Timestamp
Justification of Index: Timestamp is a primary key so a clustered index is created automatically by the sql server.

payment
Columns:
payment_id
Username (foreign key, reference username from user)
Card_no varchar(30)
Expiry_date date
Cvv
Zip
status
Deadline

Justification of Primary key: Each payment has a unique primary key so it can be used as a primary key to identify all the rows of the table.

Highest Normalisation: 4NF

1) Index: Non_Clustered
Columns: Username
Justification of Index: Username is foreign key so a non_clustered index is created automatically by the sql server.

Index: Clustered
Columns: Payment_id
Justification of Index: Payment_id is a primary key so a clustered index is created automatically by the sql server.

Index: Clustered
Columns: Card_no
Justification of Index: Card_no has unique key constraint so a clustered index is created automatically by the sql server.

feedback

feedback_id
Quiz_id(foreign key, reference quiz_id from quiz)
Username(foreign key, reference username from user)
feedback
ratings

Justification of Primary key: Each feedback from user has a unique feedback_id so it can be used to identify all the rows of a table uniquely.

Highest Normalisation: 4NF

Index: Clustered
Columns: feedback_id
Justification of Index: feedbcak_id a primary key so a clustered index is created automatically by the sql server.

Index: Non_Clustered
Columns: Quiz_id
Justification of Index: Quiz_id is foreign key so a clustered index is created automatically by the sql server.

Index: Non_Clustered
Columns: Username
Justification of Index: Username is foreign key so a clustered index is created automatically by the sql server.

Stored Procedure:

1) **Date_modify:** To change the last_modified column to current timestamp.

```
DELIMITER $$
CREATE PROCEDURE `date_modify`(in quizid int)
BEGIN
Update Quiz
Set last_modified_time = now() where Quiz_id =quiziddate_modify;
END$$
DELIMITER ;
```

Quiz_id	Description	Title	level_id	category_id	timer	creater_id	last_modified_time
1	check your knowledge on maths	integers	1	1	00:00:30	chandana_1	2019-04-21 23:40:38
2	check your knowledge on maths	integers	2	1	00:00:30	chandana_1	2019-04-21 23:40:38
3	check your knowledge on maths	integers	3	1	00:00:30	chandana_1	2019-04-21 23:40:38
4	check your knowledge on maths	integers	1	2	00:00:30	chandana_1	2019-04-21 23:40:38
5	check your knowledge on maths	integers	2	2	00:00:30	chandana_1	2019-04-21 23:40:38
6	check your knowledge on maths	integers	3	2	00:00:30	dhwani_012	2019-04-21 23:40:38
7	check your knowledge on maths	integers	1	3	00:00:30	dhwani_012	2019-04-21 23:40:38
8	check your knowledge on maths	integers	2	3	00:00:30	dhwani_012	2019-04-21 23:40:38
9	check your knowledge on maths	integers	3	3	00:00:30	dhwani_012	2019-04-21 23:40:39

2) **find_max_avg_score:** To get average score of specific quiz and maximum score of specific quiz as a parameter

```
DELIMITER $$
CREATE PROCEDURE `find_average_max_score`(in quiz_id int , out avgscore
float(9,3) ,out maxscore int)
BEGIN
Set avgscore = (Select (sum(Score)/count(*)) from Score group by(Quiz_id) having
Quiz_id = quiz_id);
set maxscore = (Select Max(Score) from Score group by (Quiz_id) having Quiz_id =
quiz_id);
```

```
END$$
DELIMITER ;
```

	@avg_sc	@max_score
▶	2.5	3

3) **find_max_user_score:** To find maximum score of user for specific quiz

```
DELIMITER $$
CREATE PROCEDURE `find_user_max_score`(in quiz_id int, in username char, out
user_max_score int)
BEGIN
Select max(Score) into user_max_score from Score where Username = username
group by (Quiz_id) having Quiz_id = quiz_id;
END$$
DELIMITER ;
```

	@max
▶	3

4) **scorecal:** To find score from given answer of user and insert it to score table

```
DELIMITER $$

Create Procedure`scorecal`(`uname` VARCHAR(200), `quizid`
INT(11), `attempt` int(100))
begin
Declare Score int;
set Score = (select count(*)
                from Questions q, Answers a
                where
                a.Username = uname and
                a.Quiz_id = quizid and
                a.count_no = attempt and
                a.Quiz_id = q.Quiz_id and
                a.Question_id = q.Question_id and
                a.Answer = q.Correct_Answer);
Insert into Score values(uname,quizid,Score,now(),attempt);
end$$
DELIMITER ;
```

	feedback_id	Quiz_id	Username	feedback	ratings
▶	1	1	abhinay_1	Very Good	5
	2	1	abhinay_1	It is hard as per level given	4

5) **find_user_type:** To find user is premium or normal

```
DELIMITER $$
```

```
CREATE PROCEDURE `find_user_type`(in username char, out t int)
BEGIN
Declare deadline date;
Declare stat char;
Declare d int;
SET stat = (select status from payment where Username = username order by
Deadline desc limit 1);
SET d = datediff((select Deadline from payment where Username = username order
by Deadline desc limit 1),CURDATE());
IF(stat = 'paid' and d >0)
        Then
   set t = 1;
   Else
    set t =0;
        End if;
END$$
DELIMITER ;
```

	@t
▶	1

Views:

1) **User_detail_with_card_info:** To see user details and payment information

```
CREATE VIEW `User_detail_with_card_info` AS
Select
u.Username,u.Password,u.First_name,u.Last_name,u.Phone_no,u.Email,u.Type,p.Card_no,p.
Expiry_date,p.Zip,p.status,p.Deadline from payment p right join User u on u.Username =
p.Username ;
```

Username	Password	First_name	Last_name	Phone_no	Email	Type	Card_no	Expiry_date	Zip	status	Deadline
▶ abhinay_1	abhinay	abhinay	Bandi	7044901766	abhinay.bandi41@gmail.com	s	5365339247682073	2019-08-28	2266	paid	2020-05-08
charan_1	Charan	charan	reddy	8125581808	charanreddy@gmail.com	s	6443092601684185	2021-11-04	9408	paid	2020-11-02
aditi789	aditi234	Aditi	Sinha	8566789452	aditi@gmail.com	t	NULL	NULL	NULL	NULL	NULL
ali_s123	sever23	Ali	Sever	7212345682	ali01@gmail.com	t	NULL	NULL	NULL	NULL	NULL
ankita_1	ankita	ankita	kumari	9999999999	ankita@gmail.com	s	NULL	NULL	NULL	NULL	NULL
chandana_1	chandana	chandana	chowdary	9999999999	chandana@gmail.com	t	NULL	NULL	NULL	NULL	NULL
dhwani_012	dhai234	Dhwani	Vyas	7066789452	dhwani@gmail.com	t	NULL	NULL	NULL	NULL	NULL
divya45	divya234	Divya	Patel	9874561237	divya@gmail.com	s	NULL	NULL	NULL	NULL	NULL
john_012	jhon234	John	Sever	9166789452	john@gmail.com	s	NULL	NULL	NULL	NULL	NULL
Kriti_123	kriti	Kriti	Jain	7044925766	kriti.jain@gmail.com	s	NULL	NULL	NULL	NULL	NULL
prutha	prutha234	Prutha	Kulkarni	9837956865	prutha12@gmail.com	s	NULL	NULL	NULL	NULL	NULL
rishabh_01	rish123	Rishabh	Srivastava	7055145623	rishabh@gmail.com	s	NULL	NULL	NULL	NULL	NULL
shahi	shahi234	Shahi	Ashesh	6532147895	shahi@gmail.com	t	NULL	NULL	NULL	NULL	NULL
varsha_012	varsha234	Varsha	Vyas	7066749552	varsha@gmail.com	s	NULL	NULL	NULL	NULL	NULL

2) **Category_level_Quiz:** To see Quiz title, timer, level , category in one table only

CREATE VIEW `Category_level_Quiz` AS
Select q.Title,q.timer,c.topics,l.levels from Quiz q inner join level l on l.level_id = q.level_id inner join categories c on c.category_id = q.category_id ;

Title	timer	topics	levels
integers	00:00:30	maths	beginner
integers	00:00:30	maths	medium
integers	00:00:30	maths	hard
integers	00:00:30	computerScience	beginner
integers	00:00:30	computerScience	medium
integers	00:00:30	computerScience	hard
integers	00:00:30	DatabaseSystems	beginner
integers	00:00:30	DatabaseSystems	medium
integers	00:00:30	DatabaseSystems	hard

3) **Question_Quiz:** To see join version of question,quiz and options to take overview

CREATE VIEW `Question_Quiz` AS
Select q.Title,c.topics,qe.Question,qe.Correct_Answer,o.options from Quiz q,Questions qe,categories c,Options o where q.Quiz_id = qe.Quiz_id and q.category_id = c.category_id and o.Question_id = qe.Question_id and o.Quiz_id = qe.Quiz_id ;

Title	topics	Question	Correct_Answer	options
integers	maths	What is the sum of first 10 prime numbers?	129	129
integers	maths	What is the sum of first 10 prime numbers?	129	130
integers	maths	What is the sum of first 10 prime numbers?	129	140
integers	maths	What is the sum of first 10 prime numbers?	129	150
integers	maths	The number of 3-digit numbers divisible by 6, is?	150	129
integers	maths	The number of 3-digit numbers divisible by 6, is?	150	130
integers	maths	The number of 3-digit numbers divisible by 6, is?	150	140
integers	maths	The number of 3-digit numbers divisible by 6, is?	150	150
integers	maths	A clock strikes once at 1 o'clock, twice at 2 o'clo...	156	129
integers	maths	A clock strikes once at 1 o'clock, twice at 2 o'clo...	156	130
integers	maths	A clock strikes once at 1 o'clock, twice at 2 o'clo...	156	140
integers	maths	A clock strikes once at 1 o'clock, twice at 2 o'clo...	156	156
integers	maths	Which of the following numbers gives 240 when...	15	12
integers	maths	Which of the following numbers gives 240 when...	15	15
integers	maths	Which of the following numbers gives 240 when...	15	36
integers	maths	Which of the following numbers gives 240 when...	15	25.5
integers	maths	The average of first 50 natural numbers is?	25.5	12

4) **Correct_Answer:** To compare user answer with original answer

```
CREATE VIEW `Correct_Answer` AS
Select q.Question,q.Correct_Answer,a.Answer,a.count_no,a.Username from Questions q,
Answers a where q.Question_id = a.Question_id and q.Quiz_id = a.Quiz_id ;
```

Question	Correct_Answer	Answer	count_no	Username
Which SQL statement is used to extract data fr...	Select	Select	1	abhinay_1
Which SQL statement is used to extract data fr...	Select	Select	2	abhinay_1
Which SQL statement is used to update data in ...	update	update	1	abhinay_1
Which SQL statement is used to update data in ...	update	update	2	abhinay_1
Which SQL statement is used to delete data fro...	delete	Select	1	abhinay_1
Which SQL statement is used to delete data fro...	delete	delete	2	abhinay_1

Triggers:

1) **score_trigger:** Whenever user submit the answers , this trigger will run and call scorecal procedure to calculate score and it to score table

```
DELIMITER $$
CREATE Trigger `score_trigger`
after insert on Answers
for each row
BEGIN
declare uname char;
```

```
declare qid int;
declare num int ;
set uname = (select Username from Answers);
set qid = (select Quiz_id from Answers);
set num = (select count_no from Answers);
CALL scorecal(uname,qid,num);
END$$
DELIMITER ;
```

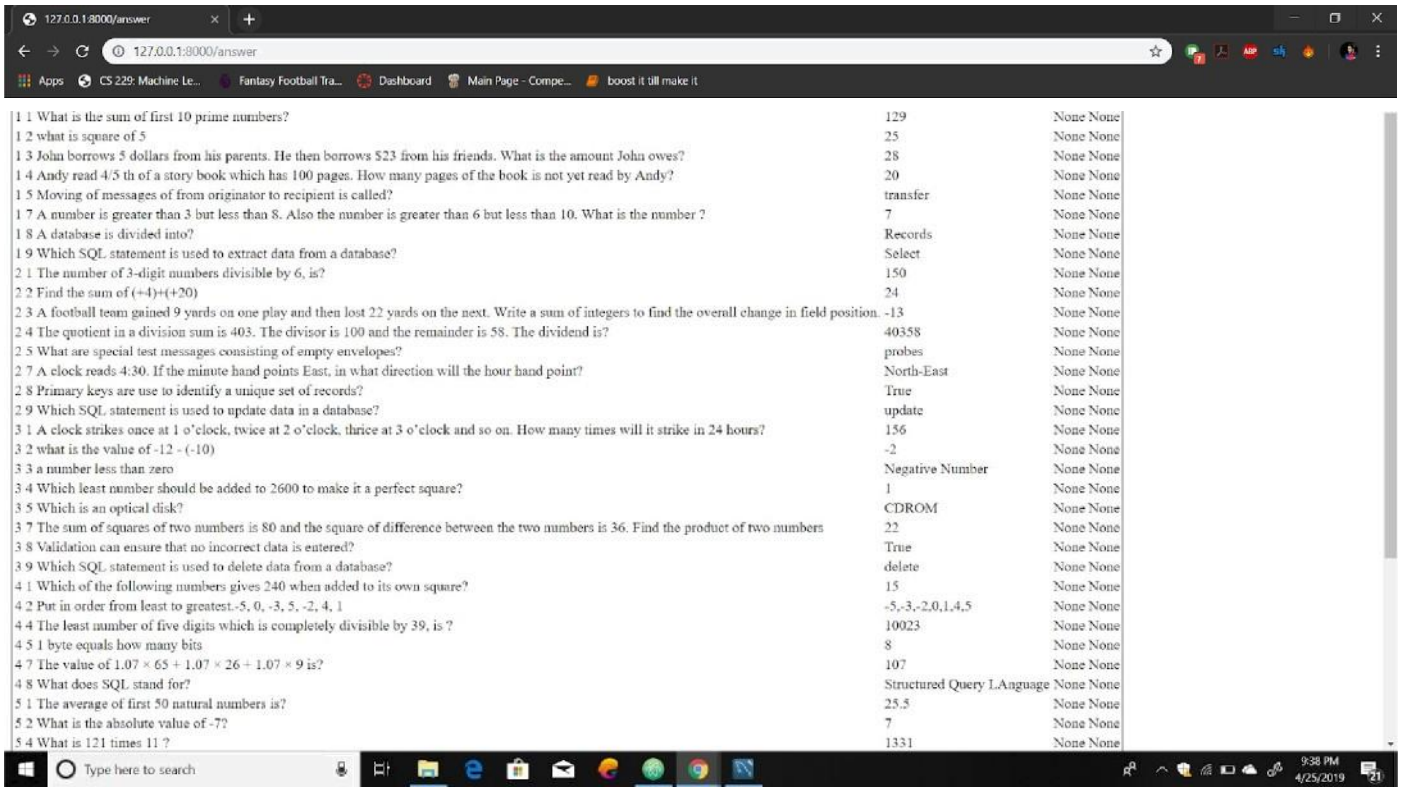
2) **Modify:** Whenever user will update some question of existent quiz then this trigger will run and call date_modify procedure

```
DELIMITER $$
CREATE Trigger `modify`
before update on Questions
for each row
BEGIN
declare quiz_id int;
set quiz_id = new.Quiz_id;
CALL date_modify(quiz_id);
END$$
DELIMITER ;
```

Improvements: We increase the scope by making new table options. Now, we are able to have different categories and level of difficulty for each quiz and the payment option through which a user can become a premium user by paying certain amount and the premium user can see the average score of that quiz and all the users can see the quiz time and how many times they have taken that quiz and their highest score.

User Interface:

abhinay_1	abhinay	abhinay	Bandi	7044901766	abhinay.bandi41@gmail.com	s
aditi789	aditi234	Aditi	Sinha	8566789452	aditi@gmail.com	t
ali_s123	sever23	Ali	Sever	7212345682	ali01@gmail.com	t
ankita_1	ankita	ankita	kumari	9999999999	ankita@gmail.com	s
chandana_1	chandana	chandana	chowdary	9999999999	chandana@gmail.com	t
charan_1	Charan	charan	reddy	8125581808	charanreddy@gmail.com	s
dhwani_012	dhai234	Dhwani	Vyas	7066789452	dhwani@gmail.com	t
divya45	divya234	Divya	Patel	9874561237	divya@gmail.com	s
john_012	jhon234	John	Sever	9166789452	john@gmail.com	s
Kriti_123	kriti	Kriti	Jain	7044925766	kriti.jain@gmail.com	s
prutha	prutha234	Prutha	Kulkarni	9837956865	prutha12@gmail.com	s
rishabh_01	rish123	Rishabh	Srivastava	7055145623	rishabh@gmail.com	s
shahi	shahi234	Shahi	Ashesh	6532147895	shahi@gmail.com	t
varsha_012	varsha234	Varsha	Vyas	7066749552	varsha@gmail.com	s



1 1 What is the sum of first 10 prime numbers?	129	None None
1 2 what is square of 5	25	None None
1 3 John borrows 5 dollars from his parents. He then borrows $23 from his friends. What is the amount John owes?	28	None None
1 4 Andy read 4/5 th of a story book which has 100 pages. How many pages of the book is not yet read by Andy?	20	None None
1 5 Moving of messages of from originator to recipient is called?	transfer	None None
1 7 A number is greater than 3 but less than 8. Also the number is greater than 6 but less than 10. What is the number ?	7	None None
1 8 A database is divided into?	Records	None None
1 9 Which SQL statement is used to extract data from a database?	Select	None None
2 1 The number of 3-digit numbers divisible by 6, is?	150	None None
2 2 Find the sum of (+4)+(+20)	24	None None
2 3 A football team gained 9 yards on one play and then lost 22 yards on the next. Write a sum of integers to find the overall change in field position.	-13	None None
2 4 The quotient in a division sum is 403. The divisor is 100 and the remainder is 58. The dividend is?	40358	None None
2 5 What are special test messages consisting of empty envelopes?	probes	None None
2 7 A clock reads 4:30. If the minute hand points East, in what direction will the hour hand point?	North-East	None None
2 8 Primary keys are use to identify a unique set of records?	True	None None
2 9 Which SQL statement is used to update data in a database?	update	None None
3 1 A clock strikes once at 1 o'clock, twice at 2 o'clock, thrice at 3 o'clock and so on. How many times will it strike in 24 hours?	156	None None
3 2 what is the value of -12 - (-10)	-2	None None
3 3 a number less than zero	Negative Number	None None
3 4 Which least number should be added to 2600 to make it a perfect square?	1	None None
3 5 Which is an optical disk?	CDROM	None None
3 7 The sum of squares of two numbers is 80 and the square of difference between the two numbers is 36. Find the product of two numbers	22	None None
3 8 Validation can ensure that no incorrect data is entered?	True	None None
3 9 Which SQL statement is used to delete data from a database?	delete	None None
4 1 Which of the following numbers gives 240 when added to its own square?	15	None None
4 2 Put in order from least to greatest.-5, 0, -3, 5, -2, 4, 1	-5,-3,-2,0,1,4,5	None None
4 4 The least number of five digits which is completely divisible by 39, is ?	10023	None None
4 5 1 byte equals how many bits	8	None None
4 7 The value of 1.07 × 65 + 1.07 × 26 + 1.07 × 9 is?	107	None None
4 8 What does SQL stand for?	Structured Query LAnguage	None None
5 1 The average of first 50 natural numbers is?	25.5	None None
5 2 What is the absolute value of -7?	7	None None
5 4 What is 121 times 11 ?	1331	None None

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3 check your Icaowledge oq maths integers	3 I	00:00:30	cbaodaaa_1	2019-04•27	23:40:3£
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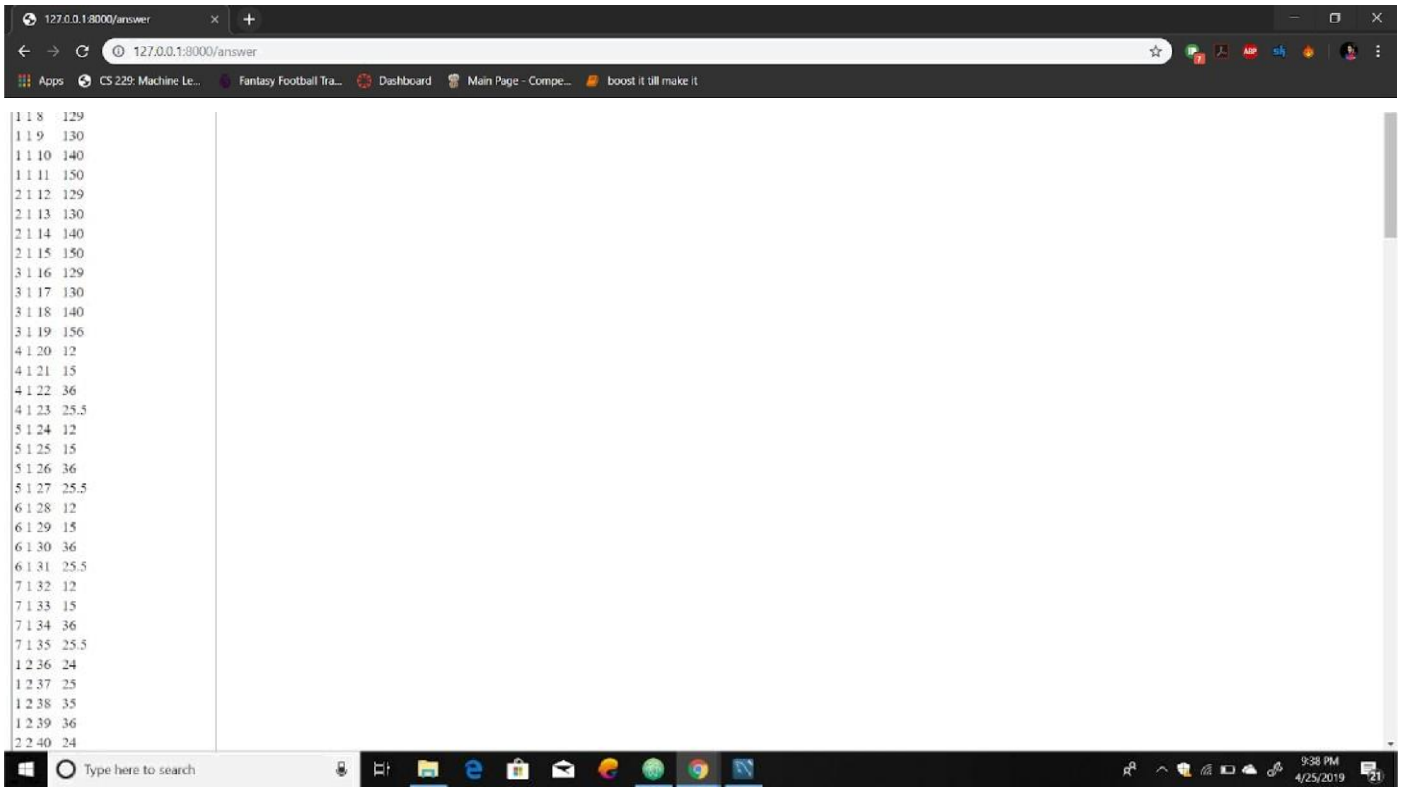
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3 1 18 140
3 1 19 156
4 1 20 12
4 1 21 15
4 1 22 36
4 1 23 25.5
5 1 24 12
5 1 25 15
5 1 26 36
5 1 27 25.5
6 1 28 12
6 1 29 15
6 1 30 36
6 1 31 25.5
7 1 32 12
7 1 33 15
7 1 34 36
7 1 35 25.5
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1 2 37 25
1 2 38 35
1 2 39 36
2 2 40 24
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Dashboard
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1 abhinay_1 5365339247682073 2019-08-28 263 2266 paid 2020-05-08
2 charan_1 6443092601684185 2021-11-04 638 9408 paid 2020-11-02

abbiaay 1 9 2 2019-04-24 22:47:16
abhaay 1 9 3 2019-04-25 20:15:23

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